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Substitute for form 1449A/PTO				Application Number	Not Yet Assigned	
18	IFORMATION DISCL	06	UDE	Filing Date	May 26, 2006	
	••			First Named Inventor	Lee et al.	
S	TATEMENT BY APP	LIC	ANI	Art Unit	Not Yet Assigned	
	(Use as many sheets as necess	sary)		Examiner Name	Not Yet Assigned	
Sheet	1	of	2	Attorney Docket Number	4240-142	

U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Document Number  Number - Kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
	AA	US- 5,143,833 A	09-01-1992	Datta, Rathin			
·····	AB	US- 5,521,075 A	05-28-1996	Guettler, Michael V., et al.			
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FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite	Foreign Patent Document	Publication Date MM- DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>		
	No.¹	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>il</i> known)						
	AC	KR10-0372218 B1	02-14-2003	Jang, Ho Nam, et al.				
	AD	KR10-0267505 B1	10-16-2000	Pan, Jae Gu, et al.				

Examiner	Date	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08b (07-05)

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				Complete if Known		
Substitu	te for form 1449B/PTO			Application Number	Not Yet Assigned	
INF	ORMATION DISC	n Osi	IRF	Filing Date	May 26, 2006	
STATEMENT BY APPLICANT				First Named Inventor	Lee et al.	
				Art Unit	Not Yet Assigned	
	(Use as many sheets as ne	cessary)		Examiner Name	Not Yet Assigned	
Sheet	2	of	2	Attorney Docket Number	4240-142	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AE	CHATTERJEE, RANJINI, ET AL., Mutation of the ptsG Gene Results in Increased Production of Succinate in Fermentation of Glucose by Escherichia coli , Appl. Environ. Microbiol., January 2001, Page(s) 148-154, Volume 67, Number 1	
	AF	LEE, P.C., ET AL., Batch and continuous cultivation of Anaerobiospirillum succiniciproducens for the production of succinic acid from whey, Appl. Microbiol. Biotechnol., July 2000, Page(s) 23-27, Volume 54, Number 1	
***************************************	AG	LEE, PYONG CHEON, ET AL., Succinic acid production with reduced by-product formation in the fermentation of Anaerobiospirillum succiniciproducens, Biotechnol. Bioeng., November 6, 2000, Page(s) 41-48, Volume 72, Number 1	
	AH	LEE, P.C., ET AL., Isolation and characterization of a new succinic acid-producing bacterium, Mannheimia succiniciproducens MBEL55E, from, Appl. Microbiol. Biotechnol., April 2002, Page(s) 663-668, Volume 58, Number 5	
	Al	LEE, P.C., ET AL., Batch and continuous cultures of Mannheimia succiniciproducens MBEL55E for the production of succinic acid from whey and, Bioprocess Biosys. Eng., November 2003, Page(s) 63-67, Volume 26, Number 1	
	AJ	LEE, P.C., ET AL., Biological conversion of wood hydrolysate to succinic acid by Anaerobiospirillum succiniciproducens, Biotechnol. Lett., January 2003, Page(s) 111-114, Volume 25, Number 2	
	AK	MILLARD, CYNTHIA SANVILLE, ET AL., Enhanced production of succinic acid by overexpression of phosphoenolpyruvate carboxylase in Escherichia coli, Appl. Environ. Microbiol., May 1996, Page(s) 1808-1810, Volume 62, Number 5	
	AL	STOLS, LUCY, ET AL., Production of succinic acid through overexpression of NAD(+)-dependent malic enzyme in an Escherichia coli mutant, Appl. Environ. Microbiol., July 1997, Page(s) 2695-2701, Volume 63, Number 7	
***************************************	АМ	VEMURI, G.N., ET AL., Succinate production in dual-phase Escherichia coli fermentations depends on the time of transition from aerobic to, J. Ind. Microbiol. Biotech., June 2002, Page(s) 325-332, Volume 28, Number 6	
	AN	VEMURI, G.N., ET AL., Effects of Growth Mode and Pyruvate Carboxylase on Succinic Acid Production by Metabolically Engineered Strains of, Appl. Environ. Microbiol., April 2002, Page(s) 1715-1727, Volume 68, Number 4	

Examiner		Date	
Signature	· .	Considered	

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